I CLAIM:

1. A cross-linkable or cross-linked rubber composition which is usable for constituting a tire tread, said composition being based on a diene elastomer and a hydrocarbon plasticizing resin which (i) is not based on cyclopentadiene or dicyclopentadiene, (ii) is miscible in said diene elastomer, (iii) has a glass transition temperature of between 10°C and 150°C and (iv) has a number-average molecular weight of between 400 g/mol and 2000 g/mol, wherein said composition comprises:

from 30 to 100 phr of a first diene elastomer having a glass transition temperature (Tg) of between -65°C and -10°C;

from 70 to 0 phr of a second diene elastomer having a glass transition temperature (Tg) of between -110°C and -80°C;

from 5 phr to 35 phr of a hydrocarbon plasticizing resin; and from 0 phr to 26 phr of a paraffinic, aromatic or naphthenic plasticizing oil.

- 2. The rubber composition according to Claim 1, wherein the composition comprises said plasticizing oil in a quantity of from 0 phr to 15 phr.
- 3. The rubber composition according to Claim 2, wherein the composition is devoid of said plasticizing oil.
- 4. The rubber composition according to Claim 2, wherein said first diene elastomer is present in a quantity of from 30 to 50 phr, and said second diene elastomer is present in a quantity of from 70 to 50 phr.
- 5. The rubber composition according to Claim 3, wherein said hydrocarbon plasticizing resin is present in a quantity of from 25 phr to 35 phr.

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- 6. The rubber composition according to Claim 1, wherein the rubber composition further comprises a reinforcing filler.
- 7. The rubber composition according to Claim 6, wherein the reinforcing filler is a reinforcing white filler.
- 8. The rubber composition according to Claim 6, wherein the reinforcing filler is a blend of carbon black and a reinforcing white filler.
- 9. The rubber composition according to Claim 1, wherein said first diene elastomer is selected from the group consisting of solution-prepared styrene-butadiene copolymers, emulsion-prepared styrene-butadiene copolymers, natural polyisoprenes, synthetic polyisoprenes having a cis-1,4 linkage content greater than 95% and mixtures thereof, and said second diene elastomer comprises a polybutadiene having a cis-1,4 linkage content greater than 90%.
- 10. The rubber composition according to Claim 9, wherein said composition comprises a solution-prepared styrene-butadiene copolymer which has a Tg of between -50°C and -15°C.
- 11. The rubber composition according to Claim 9, wherein said composition comprises an emulsion-prepared styrene-butadiene copolymer which has a Tg of between -65°C and -30°C.
- 12. The rubber composition of claim 1, wherein said composition comprises a blend of said first and second diene elastomer.
- 13. The rubber composition according to Claim 12, wherein said first diene elastomer is a solution-prepared styrene-butadiene copolymer and said second diene elastomer is a polybutadiene having a cis-1,4 linkage content greater than 90%.

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- 14. The rubber composition according to Claim 1, wherein said hydrocarbon plasticizing resin has a glass transition temperature of from 30°C to 100°C.
- 15. The rubber composition according to according to Claim 1, wherein said hydrocarbon plasticizing resin has a number-average molecular weight of between 400 and 1000 g/mol, and a polymolecularity index less than 2.
 - 16. A tread for a tire comprising the rubber composition in accordance with Claim 1.
 - 17. A tire comprising a tread according to Claim 16.

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